

ABSTRACT

The invention includes a pesticidal compound comprising at least one organic phenolic compound and at least one salt comprising a divalent cation. Preferably, the organic phenolic compound is chosen from Carvacrol, thymol or combinations thereof; and is derived from a natural source, preferably extracted from a member of the family *Labiatae* or *Verbenacea*. Preferably the divalent cation is a transition metal salt and more preferably is zinc chloride or zinc sulfate. The invention also includes methods of eradicating, repelling or preventing infestations of pests, including such pests as insects, mites, ova, fungus, or parasites. The methods comprise the steps of preparing a pesticidal compound, combining it with a carrier, and applying it to the affected area.